

Amendments to the Claims

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims

1. (currently amended) A control method for gas burners for providing a gas-air mixture, namely for supplying a gas flow and a combustion air flow to a burner, a signal of a sensor being used for adapting the gas-air mixture to different gas qualities, wherein the signal of the sensor is used for adapting the gas-air mixture to different gas qualities at selected points in time only.
2. (original) A control method for gas burners according to claim 1, wherein the signal is used after the installation of the sensor for adapting the gas-air mixture to different gas qualities.
3. (original) A control method for gas burners according to claim 1, wherein the signal is used after a fresh start of the gas burner for adapting the gas-air mixture to different gas qualities.
4. (original) A control method for gas burners according to claim 1, wherein the signal is used after a reset for adapting the gas-air mixture to different gas qualities.
5. (original) A control method for gas burners according to claim 2, wherein the signal is used when stable operating conditions of the gas burner have been reached.
6. (original) A control method for gas burners according to claim 3, wherein the signal is used when stable operating conditions of the gas burner have been reached.
7. (original) A control method for gas burners according to claim 4, wherein the signal is used when stable operating conditions of the gas burner have been reached.

8. (original) A control method for gas burners according to claim 1 wherein the composition ratio of the gas-air mixture has a predetermined range with an upper and lower limit, wherein if the composition ratio exceeds said range, the upper limit and lower limit are used to determine a subsequent composition ratio of the gas-air mixture.

9. (previously presented) The method of rendering the control of the gas-air ratio of a burner system independent of the aging process of a gas quality sensor having an output which is applied to the system for calibrating the system, comprising the step of:
applying the output of the sensor to the system only at predetermined times.

10. (previously presented) The method of claim 9 wherein the predetermined times are just after the sensor is installed.

11. (previously presented) The method of claim 9 wherein the predetermined times are just after the sensor is installed and stable operation of the burner has been reached.

12. (previously presented) The method of claim 9 wherein the predetermined times are just after a fresh start of the burner.

13. (previously presented) The method of claim 9 wherein the predetermined times are just after a fresh start of the burner and stable operation of the burner has been reached.

14. (previously presented) The method of claim 9 wherein the predetermined times are just after reset.

15. (previously presented) The method of claim 9 wherein the predetermined times are just after reset and stable operation of the burner has been reached.

16. (previously presented) The method of claim 9 wherein the predetermined times are just after the sensor is installed, just after a fresh start of the burner and just after reset.

17. (previously presented) The method of claim 16 wherein the predetermined times are just after the sensor is installed, just after a fresh start of the burner and just after reset and after stable operation of the burner has been reached.

18. (previously presented) The method of claim 9 wherein the gas-air ratio has an upper limit and when the upper limit is exceeded, the upper limit continues to be used to determine subsequent gas-air ratios above the limit.

19. (previously presented) The method of claim 9 wherein the gas-air ratio has a lower limit and when the gas-air ratio falls below the lower limit, the lower limit continues to be used to determine subsequent gas-air ratios below the limit.